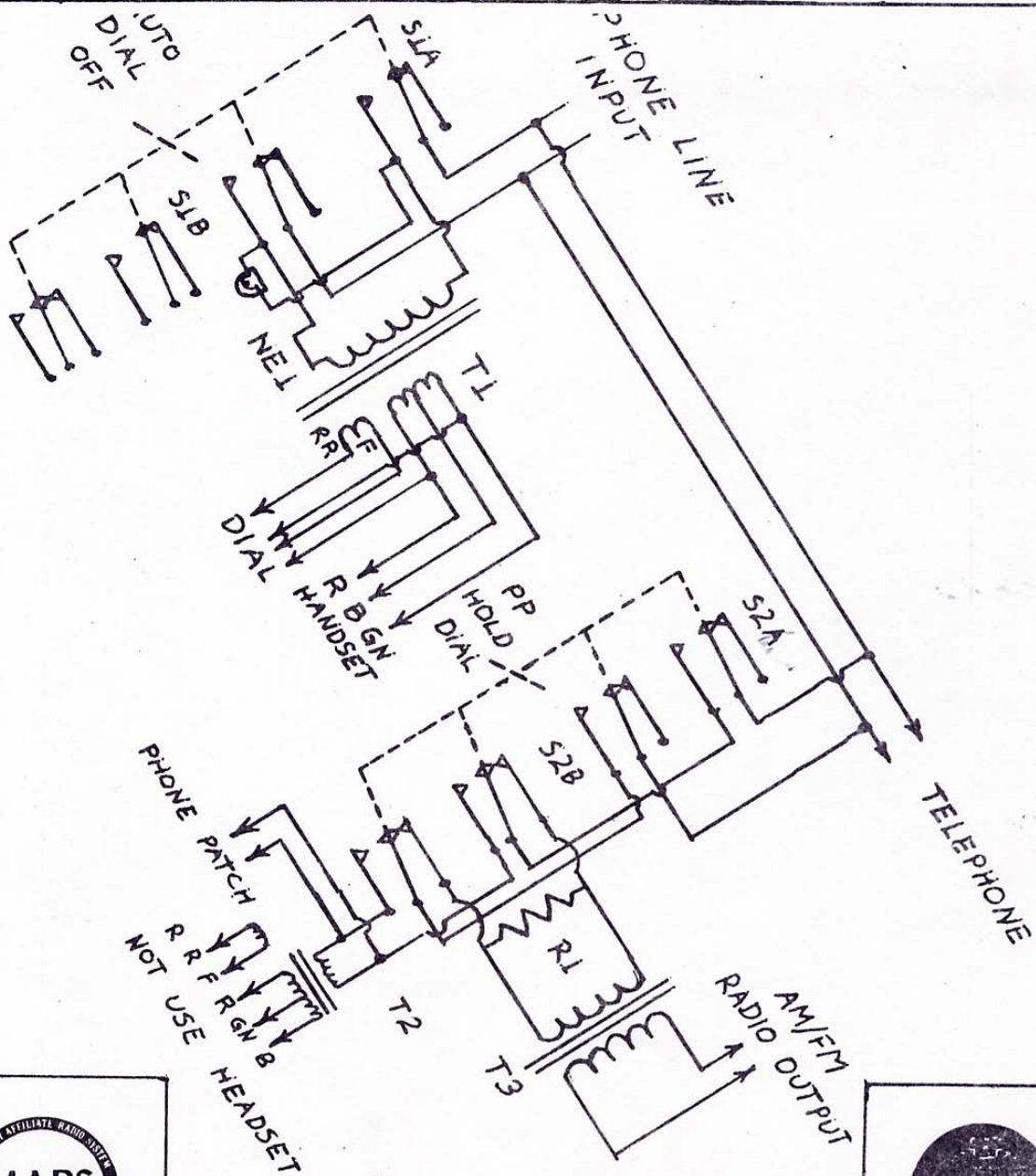


# ZERO BEAT



HEADQUARTERS MARINE CORPS HENDERSON HALL ARLINGTON, VIRGINIA 22214 Aug 1969



published by W4NTR-NØASM





**ZERO BEAT PUBLICATION.  
HEADQUARTERS MARINE CORPS  
HENDERSON HALL,  
ARLINGTON, VIRGINIA. 22214**

**EDITORIAL**

**NCOIC, N/ASM-NAV2:** By Sgt WAYNE JUSTIS  
**MANAGING EDITOR:** Sgt THOMAS L. PIERCE  
**PHOTO REPRODUCTION:** Mr. JOHN MOLNAR  
**ASSOCIATE EDITOR:** Sgt BENNETH C. SETTER  
**ART DIRECTORS:** Sgt PATRICK J. NOLAN  
 Mr JOSEPH A. DUGAN



\*\*\*\*\*

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# IN BRIEF

UP-DATE: A summary of the events of the past two months in which Zero Beat was not published follows:

WVMCTN - We've lost our regular net reporter, Lee, at NØIVT. His station has been called upon to work in its back up capacity for his area and he has been unable to meet many of his former schedules. We hope that it won't be long until he can get back into circulation again, and be able to run his morale type traffic full time. Seems like he's been doing well, though, working overtime to try to get some traffic out during the few hours he has available for it.

NØFOC - Yuma - The month of June found NØFOC running phone patches for a large number of Marines on maneuvers on San Clemente Island, Cal. With the help of "Ham" Sgt Jim Washburn, K9JXA, who was with the troops, Yuma ran 177 patches during the three week period.

NØIZG - Kaneohe - The station has a new 20 mtr beam and is still looking forward to the 13 to 30 LP 1007 they are programmed to get. With the loss of Sgt Larry L Matthews, the station is now down to two operators and doubling up on the work load, till a replacement is found. From Dick: "I do want to wish Larry every success in the world. The man was one of the best we had in the program."

NØRTP - Quantico - RTP lost Stan Siems to civilian life and the gap was filled by GySgt Bob Connelly until SSgt Bill Myrick came in from Gitmo, around the first of July.

NØEFT - RVN - Don settled in at the "Voice of the fighting 5th" after a bit of moving around in the system. Traffic totals were good and Don sends a special thanks to "the gang at NØEEM" and to Don Weymouth, NØLUV, Torrance, Ca., who handled most of the load. Then the beginning of summer brought a "cool 110" temperature. Also a new 20'x32' bunker for the station. They are still waiting for completion of the inside and "about 15,000 sandbags. Any volunteers?"

NØEFD - RVN - Would you believe a "patio-bar, screened in, covered, cool sea breezes." ...Well, believe it! and "stop in and have a cool one sometime". The station finally saw T/O operator-wise but Joe (just promoted to Cpl) and Jim (just promoted to LCpl) were due for Conus rotation. New operators are Dick, WAØAHQ, Gary, WA40CI, and ED, WA1FVJ.

NØEFA - RVN - Installation, testing, and now constant use of a 6 wave length rhombic, was the big event at Bravo. They also have installed three model 28 positions and cover all but one sked at 100. Sgt John Marquess joined the Bravo team from VMGR-252 on 6 Apr 69.

NØANP - San Diego - "The old man (Bob)" will be around until 31 Aug and Rick, the new Chop, is already standing in. The station is programmed for a Frederick converter and "any advise will be appreciated". Also they're getting ready for the October ARRL convention out there.

# NEWS & VIEWS



NØEFC

The month of July saw quite a few changes and improvements at the old QTH NØEFC. We lost one of the best operators we had. Cpl Jerry Peters who went to Conus and will be discharged. We picked up a new operator, Sgt John Barrows who has never been in MARS before. He is doing an outstanding job for the little time that he has been here. Welcome aboard John. We also picked up LCpl Mike Trombetta who is the best tech this station has ever had. In fact Frank WB6QIV/NØIZE has been kicked out of the tech shop. So now he's fighting to run phone patches. We had two promotions in the month of July. LCpl Trombetta picked up Cpl and Cpl Dave Price, known as Big Thunder, picked up Sgt. We have had 60 wpm TTY for some time. Now we have a 100 wpm TTY receive only. As soon as NØEFB gets us a 100 word TD, we will be 100% 60 and 100 word send and receive. Our phone patches for the month were very low. We hope with "TJ", WB6OQL taking over at NØTEF, things will improve with the month of August. Go traffic, TJ. The message traffic is going real good with an average of 35 to 40 originated a day. With the August report we hope to have pictures of our station which we feel is the best looking in RVN. We will be losing Sgt David Price in about 45 days. He will be going to school at Parris Island, South Carolina. Well gang that's about it from this QTH. The land of continuous sand dunes.

73's

Frank WB6QIV/NØIZE

John

Dave

Mike

Larry

NØEEM - Camp Smith

Things are going quite well here at Camp Smith. Traffic is up and the equipment is still hanging in there. Don't remember if I noted the arrival of Sgt (Dale) Skegman or not, but he's doing a real fine job. Also have a new operator with the handle of Kurtelawicz, can you believe it? He's a Cpl, and the easy part to pronounce is John. Had very little experience when he arrived about a month ago. But he's doing great running calls back to back now. Just received our 2K3 from Wash via Henry Radio. Now all we need is our LP and I'll be able to breathe a little easier.

73's Russ NØEEM

NØENV - Iwakuni (Jun)

After many tedious months of hard labor, Roger has finally decided to take a little rest and relaxation from the unusual grind of Japan to Guam (?) Steve is now leaving ENV for Okinawa after undergoing a difficult course of training from our local AAA. Dave, acting as NCOIC of the practical portions of the exercise. Bill can now swim like a whale and received his polly-wog certificate for unusual advancement in the MCAS drown proofing course. Actually, drown proofing has become very useful with the rainfall we have been having. We are presently capable of receiving both 60 and 100 wpm RTTY and are desperate for a TD to enable us to also send at 100. Can't somebody help us.

73's Dave, Steve, Bill, and Roger

# IF I WERE CHIEF NAVY-MARINE CORPS MARS

ZERO BEAT will be printing the constructive and sincere suggestions of our readers for a better NAVY-MARINE CORPS MARS program.

By consent of Chief of Navy MARS, all letters will be screened by his office and action will be initiated on those of possible merit.

If you were Chief Navy MARS, what would you do to better the Program? Write your suggestions, in 300 words or less, to:

ZERO BEAT  
c/o Navy MARS Station NAV2  
HQBN, HQMC  
Henderson Hall  
Arlington, Virginia  
22214



I would supervise and control more closely, the teletype relay system with an eye toward the standard message format. Again, several stations are attempting to run their own system by using whatever format, schedules and/or anything else which seems to suit their immediate needs without a thought about what might be happening on down the line, and the extra hours of work caused by a thoughtless operator or CHOP. We are in this thing together, so we should all at least attempt to lighten the load for one another.

Guessing does not belong in this system, and inventing fills because you are too proud (stupid) to admit you missed something, just doesn't go. In the same vein we are all using approximately the same terminal equipment which requires either 850 hz or 1700 hz shift. I know of no equipment presently utilizing a 500 hz shift, 620 hz shift, or whatever shift misaligned equipment may put out. Why won't people, primary 602 stations, take a friendly word of advice in the manner in which it is given and put a counter and/or distortion scope on their gear whenever a fault or apparent malfunction is noted, and correct same without getting all hot and bothered and refusing to investigate.

73's Bill NORTW

I would attempt to have more reserve training centers manned for NAVMARSTAs as this would give a better flow of traffic into more cities and districts that have no civilian stations.

SSgt R F Norris N0FFV

Chief (con't)

If I were Chief Navy (Marine Corps) MARS, I would publish a projected list of available billets six to eight months in advance, thereby enabling personnel in the MARS program to submit their requests to NNASB requesting the particular location that they desire, therefore, giving NNASB also a sufficient amount of time to evaluate their request.

NØENV

---

I would have either NNASV or NØGVN travel around and try to find out why the traffic count from the Navy and See Bee stations in country are off so from the Marine Corps stations. I know there are people in these respective areas, but is the word getting to the units that the phone patch and/or MARSGRAM traffic service is available, or are the individual stations just sitting around air conditioned shacks and trying to impress their command that they are busy. Check the totals of the gateway stations and you can see. Just trying to get the system to build up, but we need team-work.

NØIZG

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Just a comment: I was wondering why on the monthly total column there appears "NO REPORT RECEIVED" and that respective station is active in the system and does have a Chop assigned there. Would like to see the guys give a little time and fill a form and send it in. Really, I don't feel that we are that busy. I could be wrong but I'd have to see that station who is that busy.

Dick NØIZG

---

#### FLOODS AT NAV2

Well, if you haven't heard by now, we'll fill you in. On the 16th of July 1969, NAV2 got submerged, due to a reluctant sewer system. Seems the rain just came down faster than the drain could handle it. And I'll tell you, this drainage system is something else. Ever try to drain the bathtub through a soda straw? We were fortunate by comparison though. We managed to get back on the air in just a couple of weeks. Just in time for the second flood. Again, being as I'm Irish and lucky too, we didn't get hit too bad, and we were back on the air in a couple days.

We were lucky, but some of the places out in town were really in bad shape. So much so that certain areas were declared Federal disaster areas. But back at NAV2, after about two weeks of mopping up, rinsing out, drying off, cleaning up, rewiring, checking, double checking, finger crossing and nail biting, we were back on the air. We had only one machine to start with, but with some cooperation from NAV, we were able to pass traffic both ways without any real trouble.

While equipment can be repaired, even though it may take a while, other damage was done that was irreparable. Namely, files and records. Naturally, we salvaged as much as possible, but there was still some loss. It was quite a sight



# NØPPC



## RVN · CONUS PHONE PATCH COORDINATOR.

RVN/CONUS QUARTERLY PHONE PATCH ASSIGNMENTS: EFFECTIVE 070100Z  
JUL 69

- |     |         |                                                                                                                         |                                                                                              |
|-----|---------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1.  | 11402.5 | L (P) NØJPJ (B) NØRSE<br>U (P) NØFMO (B) NONE                                                                           | WORK NØEFB NØEFR<br>WORK NØEFI NØEFQ                                                         |
| 2.  | 13827.5 | L (P) NØUSM (B) NONE                                                                                                    | WORK NØEFE NØEFO                                                                             |
| 3.  | 13927.5 | L (P) NØTEF (B) NØFOC NØZHP<br>U (P) NØRIW (B) NONE                                                                     | WORK NØEFC NØEFK<br>WORK NØEFF NØEFS                                                         |
| 4.  | 14470   | L (P) NØANP (B) NØLUV<br>U (P) NØRTY (B) NØJJP                                                                          | WORK NØEFL NØEFT<br>WORK NØEFG NØEFH<br>NØEFK NØEFM                                          |
| 5.  | 14480   | L (P) NØWTG (B) NØKIX<br>L (P) NØWTG (B) NONE<br>U (P) NØRSB (B) NØAAV<br>U (P) NØRSB (B) NØTEF<br>U (P) NØRSB (B) NONE | WORK NØEFD<br>WORK JAPAN<br>WORK NØEFA NØEFJ<br>WORK JAPAN<br>WORK NØIKK NØRSN<br>(ALL PHIL) |
| 6.  | 19430   | L (P) NØRTY (B) NØRSB<br>U (P) NØAVD (B) NØISY NØKOR NØYSR                                                              | WORK NØEFB NØEFR<br>WORK NØEFN NØEFP                                                         |
| 7.  | 19956.5 | L (P) NØFMO (B) NØHFO NØHNH NØIYO<br>NØJUN<br>U (P) NØIYO (B) NØFMO NØHFO                                               | WORK NØEFY NØEFQ<br>WORK NØIKK NØRSN<br>(ALL PHIL)                                           |
| 8.  | 20375   | U (P) NØTEF (B) NØJJP                                                                                                   | WORK NØEFA NØEFD<br>NØEFJ NØEFN                                                              |
| 9.  | 20525   | U (P) NØRTY (B) NØLUV                                                                                                   | WORK NØEFB NØEFC<br>NØEFL NØEFY                                                              |
| 10. | 20625   | U (P) NAV 8 (B) NØJCQ NØJUX                                                                                             | WORK NØEFS NØEFY                                                                             |
| 11. | 21760   | U (P) NØUSM (B) NØJUN NØWTG NØKRY                                                                                       | WORK NØEFE NØEFG<br>NØEFI NØEFO                                                              |
| 12. | 27900   | L (P) NONE (B) NØJJP NØUSM<br>U (P) NØRIW (B) NØFMO                                                                     | WORK NØEFC NØEFL<br>NØEFY<br>WORK NØEFB NØEFD<br>NØEFJ                                       |

NØPPC (con't)

13. REQUEST NØGJA, NØGOK, NØGPH, NØGVN REPRODUCE COPIES THIS MSG AND FORWARD TO ALL ACTIVE STAS WITHIN THEIR RESPECTIVE JURISDICTION
  14. SPECIAL ATTENTION WILL BE GIVEN TO FREQ TOLERANCE IAW DNC 8 ANNEX (B) AND ALL CURRENT/SPECIAL ORDERS/DIRECTIVES/ INSTRUCTIONS PERTAINING THERETO
  15. ALL STATIONS WILL OPERATE ON ASSIGNED SIDEBANDS AND FREQS AS SET FORTH IN THIS MSG ONLY, EXCEPT WITH PRIOR AUTH. FROM NØPPC AND NØGVN OR APPROPRIATE DIST. DIR. WHERE APPLICABLE
  16. CHANGES IN 2Ø MHZ FREQ AND STATION ASSIGNMENTS ARE IN ORDER DUE TO A CHANGE IN DIST ASSIGNMENT
  17. ALL CHANGES ARE COORDINATED WITH NØGVN
  18. REQUESTS FOR ASSIGNMENTS/NOMINATIONS TO RVN/CONUS PHONE PATCH NETWORK CONTAINED IN NAVMARS 31/68. IT IS REQUESTED SUCH REQUESTS BE MADE IN MESSAGE FORMAT VICE LETTERS/PHONE CALLS
  19. THIS MSG SENT ALL DIRECTORS FOR REFERENCE MATERIAL AND GENERAL INFORMATION WITHIN LOCAL AREAS FOR THEIR MEMBERS
  20. THIS MSG MAILED AS CONFIRMATION TO ALL DIRECTORS. ALL PREVIOUS RVN/CONUS PHONE PATCH ASSIGNMENTS MADE PRIOR TO 070100Z JUL 69 ARE HEREBY CANCELLED. COORDINATION WITH NØGVN EFFECTED 21 JUN 69. SUB-CHANGES SENT TO ALL CONCERNED WITH THE GIVEN FREQ/ FREQS HAVING CHANGES MADE. ALL OTHER ADDEES NOT IMMEDIATELY CONCERNED AND NOT EFFECTED, ARE BROUGHT UP TO DATE WITH NEXT QUARTERLY SHEET
  21. CURRENT AND CORRECT MAILING ADDRESS AND PHONE INFO OF NØPPC IS:  
NØPPC  
BLDG 34Ø, DEPOT SPL SVCS  
MCRD, SAN DIEGO CALIF 9214Ø  
AUT 957-4681/957-5153  
CODE 714 PHONE 225-4681/225-5153
- 

Floods fm p.4

around here for a couple days. With pages from every ZB ever printed, hanging around all over the place drying out, it looked (and smelled) like the Mad Hatters Diaper Service after the tiny tots pea party.

In any case, we are now back in operation and, with most of our files restored, everything is back to normal, almost.

Oh yes, we're moving the station soon....

Upstairs!!!!



# NØPPH

Having just been appointed phone patch coordinator for Hawaii, I would like to take this opportunity to thank all concerned for the chance to function in this capacity.

I must say it won't be easy to follow in the foot steps of SSgt Richard (Dick) Stulz, but because of the extremely fine job he has done, there's almost nothing but routine work now. Let it be said now, that Dick has spent many a sleepless night working at his job as PPC here in Hawaii, insuring that RVN stations would receive the best support that the Hawaiian stations could give. Let it also be known of the many, many additional hours he has put into the program in which most people would have just said to hell with it. I am very thankful for the help and encouragement he has given me and I'm very proud to try to fill his shoes as NØPPH here in Hawaii and hope that I'll be able to accomplish even half of what he has....Thanks a lot Dick.

As you might know already, we do not have an abundance of gateway stations or frequencies here in Hawaii. So, we are forced to have more than one or two stations on our frequencies. Right now however, it is not causing too many problems as band conditions to the mainland are improving and our traffic is down somewhat.

At the present time this is the way it looks,

NØENW	works	NØEFE, NØEFH, NØEFM, NØEFS	MONDAY - FRIDAY
NØLUN	works	" " " "	SUNDAY
NØOHI	works	" " " "	SATURDAY
NØIZG	works	NØEFB, NØEFD, NØEFI, NØEFJ NØEFK, NØEFL, NØEFN, NØEFZ	MONDAY - SUNDAY
NØEEM	works	NØEFA, NØEFF, NØEFR, NØEFT NØEFY	MONDAY - SUNDAY
NØFEU	works	NØEFC, NØEFG, NØEFO, NØEFP NØEFQ	MONDAY - SATURDAY
NAV 14	works	NØEFC, NØEFO, NØEFG, NØEFP NØEFQ	SUNDAY
		JAPAN/PHIL/OKI/GUAM	TUESDAY

Very soon, we will be losing NAV-14 as a phone patch station, so we'll be looking for someone to pick up their Sundays and Tuesdays. Of course, the reason for the possible loss of their phone patch capabilities is because of an expected increase in RTTY operations....

Well, that's about it from the land of liquid sunshine. Until next month, best of 73's.

Russ Miller NØPPH

# ★ OKINAWA ★

## AMATEUR RADIO - MARS COORDINATOR

GYSGT R S LASZKO

### ON THE ROCK

The month of July has been a busy one here on the Rock. Traffic has steadily increased, as is reflected by this month totals. All stations are making a maximum effort to provide the necessary service to our Marines here on Okinawa. Due to the recent influx of troop strength here we have had to extend our capability to meet the demand for phone patch and message traffic.

During the month of July, the NØGOK area was authorized a direct Conus bridge circuit to NØRSE, designated the PAPA-1 channel. This circuit has worked extremely well and has been very effective. Our hats are off to the gang at NØRSE for the outstanding service they have provided to this command.

This month is no exception in the ever fluctuating personnel situation here. On the 31st of July, Cpl Chet Park rotated back to Conus for duty with the 5th Marine Division. Chet was the chief "operator" at KR6MB/NØETJ.

SSgt Stephens, formally of NØENV joined us this month and will be with us until the 25th of August.

Sgt Russ Burgess is presently back in California on 20 days emergency leave. We are glad to report everything turned out fine for Russ and he will return on the 13th of August.

Received word early this month, that GySgt Bill Reid will be my replacement. Bill comes to us from the high desert out there at K6MCA. Received my orders on the 7th of July for duty with MARS Camp Pendleton, California. Am looking forward to that assignment with great pleasure. If all works out according to plan I hope to be airborne heading back to the coast on 21 September.

Hope to see some fresh talent heading out here to the Rock for duty with MARS in the near future. We will have several vacancies occurring here shortly. Now is the time to rush over to your First Sergeant and submit that AA form to spend a little vacation here on this Beautiful Tropical Paradise affectionately known as "The Rock".

# IN TRIBUTE

As you gentlemen know, the articles coming from Hawaii have been on the system and the general operation of "MARS" as it applies to the Hawaiian program. This time, I feel a real need to devote the article, not to the system, but to an individual in the system that has helped in so many ways to make the system we presently have the outstanding program that it is today.

July 27, 1969 will mark the retirement of MSgt Robert P. Retella (The Ole Cotton Picker), who for many years prior to the inception of the Navy-Marine Corps MARS program to the Marine Corps, was very active in the Amateur system within the Corps. Working as NCOIC at just about every Marine Corps Amateur Radio Station on the west coast at one time or another and also in the system on Okinawa, Bob has won the hearts and trust of many a "HAM" because of his true devotion and endless dedication to a system that he and a lot of others wanted to see work. The desire to see a good thing prosper, which is inherent in Bob's nature, was a primary factor that made NØEFD so effective in 1967. I had the honor of working with Bob at NØEFD in Chu Lai and could see that his attitude on many things pertinent to the success of our mission had not changed since I first met Bob when the Ole Cotton Picker was my radio chief and carried the rank of sergeant E4.

As you can see, I know Bob Retella as both a personal friend and a very resourceful leader. Our friendship has come a long way since 1954 and that is a lot of years to try and put in an open letter the true feelings of a fellow Marine for a buddy who has decided to turn in his microphone for the serenity of civilian life. Granted, the program will continue. The real question is, HOW will the program continue? The die has been cast and Bob has selected retirement. I know that who ever takes the place of MSgt Retella as NØPPC has his work cut out for him. I do not envy this person, I know that the shoes left by Bob Retella will not be easy to fill. MSgt Retella is presently the NCOIC at NØANP located at the Marine Corps Recruit Depot in San Diego, California. Those of you that do not know Bob nor have seen NØANP, it is the "Station of the Month" in the December 68 issue of Zero Beat.

All I can say is that from a professional point of view, we are going to have to look many times over to find an individual with the capacity for not just getting the job done, but getting the job done with such success that to try and equate or evaluate this type of potential would take a lifetime. Dedication to God, Corps and Country are synonymous with the leadership qualities MSgt Robert P. Retella has possessed through his entire career in the U.S. Marine Corps. From a personal point of view, trying to find words to express my feelings for a life-time buddy would be like trying to explain the making of a sunset. This would be impossible as you well knew and so, for me to try and express in words my feelings for MSgt Retella would be just too hard. In a couple of words though, Bob has passed along a lot of his knowledge to me and I am presently trying to apply same in the MARS system here in Hawaii. I know that as the years pass and the system grows, what I do in the system will reflect a lot of time and patience of one MSgt Retella.

Bob, I am sure, will be missed but as long as I am active in both the Marine Corps and the MARS/Amateur system of the Corps, Bob will not be forgotten. It is most unfortunate that MSgt Retella did not have the opportunity to serve as a District Director in our MARS program. I know, as do the guys presently in

the program that the Ole Cotton Picker could not have been touched by anyone anywhere as a Director. A personal opinion yes, but also an AUTHORITATIVE one. Let the man's record speak for itself.

To MSgt Robert P. Rotella from all the MARS members here in Hawaii, a very profound Aloha, and from your best buddy, Via Con Dies.

73s

*Dick*  
*at*

N0ASL1  
N0GAN  
N0PPC (Hawaii)  
N0IZG  
N0JWW

**FOR  
SALE**



HW-16, cw xcvr, \$100.00, Jack at N0IXF

I am looking for a case in which to carry a SB101 and power supply, safely!  
N0IVT/KP4AZJ

#### A WORD ON ORIG DATES

A couple of times I have seen where people are wondering why the orig date on traffic out of RVN. It started when certain stations had pick up boxes and did not clear all traffic daily. The traffic built up in the boxes and was sent as current traffic when, in fact, it was a week or two old. Unfortunately a few of the people sending the messages were WIA or KIA before the messages were sent and after they had put it in the box. I feel it is unnecessary as long as you have responsible people handling the traffic and when they assign a DTG it is not changed just to make it look as if the message is current. The book says put an orig date on if it is different than the DTG. Sounds simple but some people won't do it as this makes the traffic look old. Sorry about that and thus we have the orig date. However, people still have a tendency to put today's DTG and orig date on a message even if it is a day or two old. So what good it does is anyone's guess. System is only as good as the people in it.

Jim N0EFD

**-Marine Corps**  
**U.S. NAVY/MILITARY AFFILIATED RADIO SYSTEM**  
**Fourteenth Naval District**  
**530 Peltier Avenue**  
**Honolulu, Hawaii 96818**

RFS/vms  
1520  
29 July 1969

**From: District Director, Navy-Marine Corps MARS, Fourteenth Naval District**  
**To: Chief, Navy-Marine Corps MARS**  
**Subj: MARS operations with the USS HORNET**

1. On 12 July 1969 the District Director boarded the USS HORNET to discuss the possibility of MARS operations from the ship to the Hawaiian area. Due to the lack of time to program more districts, this was the only MARS District involved. Mr James O'Connor was the NAVMARCORMARS member aboard the HORNET. His call sign was NØABE. Stations involved in this operation here in Hawaii were NAV14, NØEEM, NØENW, NØIZG, NØJWW and NØZGL.

2. The phone patching and written traffic processed from 13 July to 26 July was a first in Navy-Marine Corps MARS and we believe a very effective one. Though the circuit was primarily an emergency backup for CTF 130 and an outlet for quasi-official traffic, the ultimate use was one of morale and welfare dealing with both military and civilian personnel aboard the HORNET. Accumulative totals of both traffic and time the frequency was guarded during APOLLO 11 are as follows: written traffic 4, phone patches handled 45 and hours guarded by all Hawaiian gateway stations assigned 32 hours, 28 minutes.

3. Upon completion of the APOLLO 11 mission, a critique was held to determine the possible methods for a better MARS operation in conjunction with APOLLO 12. It was decided to run more traffic on Navy-Marine Corps MARS frequencies vice amateur frequencies because of the amount of interference caused by other amateur radio operators trying to establish contact with the USS HORNET to obtain a commemorative card. This aspect was totally eliminated on our MARS circuit devoting more time to phone patching. The addition of MARS gateway stations on the west coast was proposed and will be coordinated by the District Director or his representative here in the Fourteenth Naval District. The use of 40 meters will also be employed on APOLLO 12 since it was impossible to work the USS HORNET when it was close to Hawaii. Use of 20 meters became impossible and going to 15 meters was ineffective. To assist in the handling of the MARS traffic on the next APOLLO mission, there will be personnel from the Fourteenth MARS District going aboard the recovery ship to augment the staff and aid in anyway possible. If necessary, equipment will be supplied by the Fourteenth MARS District Director.

4. It was the opinion of all concerned, both military and civilian on the USS HORNET and here in Hawaii, that the Navy-Marine Corps MARS circuit supplied most effectively a new outlook on our ever expanding program.

RFS/vms  
1520  
29 July 1969

It is the hope of all of here in Hawaii that our efforts will be looked upon as "A SMALL STEP FOR MARS AND A GIANT LEAP FOR THE MARS PROGRAM".

RICHARD F. STULZ  
Acting

Copy to:

CNO  
CMC  
CINCPAC  
CINCPACFLT  
CGFMFPAC  
NAVCOMSTA HONO  
MCAS KANE OHE  
CAMP H. M. SMITH  
ALL NAVMARCORMARS COG OFFICERS PACIFIC  
ALL NAVMARCORMARS DISTRICT DIRECTORS  
ALL NAVMARCORMARS AREA COORDINATORS PACIFIC

USS HORNET CVS-12  
PRIME RECOVERY  
VESSEL

N0ASL-NAVY MARS  
W2KGO- <sup>MUTUAL</sup> RADIO  
W6EOY-ABC  
K6YGE-ABC  
WB6SUV-COMSAT  
K6SDF-AFRTS  
W6ARP- NELC  
WA3BRZ-GE  
WA3HYI-GE



## PREVENTIVE MAINTENANCE

### What is Preventive Maintenance?

This is any maintenance that is performed with the idea of preventing certain common troubles from happening. It is important because we must maintain a reliable communications network. To do this we must have reliable equipment. By anticipating common troubles and preventing them from becoming realities, we are able to spend many more maintenance free hours operating. Preventive maintenance can save you many headaches and equipment failures.

### How is Preventive Maintenance Performed?

There are two main types of preventive maintenance. They are cleaning of equipment and correct operating techniques. Preventive maintenance calls for few if any technical skills. A regular system of preventive maintenance can prolong the time between major repairs and eliminate many minor repairs to the equipment. There are many ways to perform a PM. I am going to give you one that I use and have found very effective. I go through this procedure on every piece of equipment once a month.

The most important, I believe is the cleaning and inspection of the equipment. By careful attention to this, you can spot many troubles before they can become big problems.

The first step in this procedure is to remove the equipment from the cabinet. Dust it off with a small paint brush and if needed, use a dry cleaning solvent to remove grime and grease.

Then inspect for evidence of component overheating, broken insulation or arcing.

Check relay contacts and clean them to prevent sticking. (A burnishing tool or jewelers file is good for this).

Check coil and variable capacitors for dust lint or other objects that could short them out, and clean them.

Oil any parts that require it, being careful not to apply it to any that do not require it.

Replace equipment in the case and enter maintenance in the maintenance record.

This procedure should be performed a minimum of once a month to receive maximum protection of equipment from dust, lint, bugs and other items that could cause trouble. Tubes should be checked every quarter and replaced when found bad.

Other preventive maintenance measures that should be checked often is equipment grounding system, and provisions for grounding antennas during electrical storms.

The second thing that can save many major repairs is correct operating procedures during tune up and operation of equipment. By watching the meters and readings you get during tune up, you can usually spot trouble before it becomes serious. By correcting the problem immediately you can often prevent major damage to the equipment. Check meters often during operation and pay attention to them. If you ignore incorrect readings then you are asking for trouble.

## PM (con't)

By following a standard procedure and performing it regularly you will get many more maintenance free hours of operation and will not have many unexpected repairs to worry about. Correct usage of equipment and monitoring facilities will give you plenty of warning when something is wrong with your equipment and allow it to be corrected before it can cause more problems and time off the air.

Preventive maintenance can save you time and delay in your work schedule. It will enable your equipment to perform for many more hours with out repairs of major concern and will let you spend less time of the air. The only tools normally needed for a PM are: screwdriver, small file (burnishing tool, or sand paper can be used), dry cleaning solvent and small paint brush.

Bill Myrick NØRTP

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### DO YOU HAVE A MAINTENANCE RECORD?

How many times have you heard this question? I have been in many stations and almost every time the station was inspected this was brought up.

The reason is that a maintenance record is important to the station. It can tell you what modifications have been made to your equipment, what repairs have been needed, who did the maintenance and other things that will help you in performing other needed maintenance. It will show you a recurring problem with your equipment.

By entering every maintenance in your records you can be aware of how much it costs to maintain your station (invaluable when it comes time to submit a budget). For this and many other reasons a good maintenance record is very important to your station.

I use small (6x8) record books to record the maintenance I perform. 3x5 cards or any other method of recording this work is fine, as long as it contains all pertinent information.

The following items should be entered each time any maintenance is performed.

1. Date
2. Parts used (part number, price, manufacturer)
3. Maintenance performed (changed V3, replaced R1, etc.)
4. Date parts ordered and received
5. Person performing maintenance
6. Hours to perform maintenance

If these records are kept up to date there will never be a time when you don't know what has been changed in your equipment. This is especially helpful when you take over a new station, and it will make the man relieving you very happy. Make use of this system and you will have a more efficient station.



# LICENSE APPLICATION FOR AMATEUR STATIONS UNDER MILITARY AUSPICES

Printed below is a sample of FCC form 610, Application for Amateur Radio... License. At the request of Chief NAVMARCORMARS the following information is printed for the benefit of custodians of stations under military auspices.

First of all, special instructions for filling out the form are printed on the reverse side of the form. Following these instructions will help avoid most errors and speed up the renewal of the station license. In addition the following guidelines are presented to help avoid those mistakes that have been made frequently in the past.

1. Application for renewal of the individuals license, and application for renewal of the custodial station's license should be filed separately. Renewal of the station license should be filed in the same manner as an application for a new station, ie on FCC form 610, by letter of transmittal to the Commander, Naval Communications Command, information copies to the chain of command.
2. No information about the individuals license is required at all on the application for the custodial station license.
3. Item #2, Permanent Mailing Address, this is the address of the station not the individual.
4. Item #6, need only have the information for the station under military auspices, since the applicant is not necessarily licensed himself.
5. Item #7, this applies only to other licenses pending for the custodial station.
6. Item #9, Station Location, this is the station location for the custodial station.

FCC FORM 610  
July 1966

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D.C. 20554

Form Approved  
Budget Bureau No. 52-R069.17

## APPLICATION FOR AMATEUR RADIO STATION AND/OR OPERATOR LICENSE

### GENERAL INSTRUCTIONS

1. Use this form to apply for a new, renewed, or modified license. Do not use this form to obtain a duplicate copy of a lost, mutilated or destroyed license. For a duplicate license, submit a letter request (no fee) giving your name, address, station call sign or control number, license expiration date, and state how the original license was lost, mutilated or destroyed.
2. Complete this form as follows:
  - a. Use typewriter or print clearly in ink.
  - b. Complete all applicable items carefully. (See Special Instructions on reverse side for completion of items 1, 4, 5A, 5F, 5G, 8 and 9).
  - c. Present license should be attached in the space provided.
  - d. Application must be signed and dated.
  - e. Mail application to Federal Communications Commission, 344 York Street, Gettysburg, Pa. 17325. (See Special Instruction C(4) for exceptions).
3. Enclose required application filing fee by CHECK OR MONEY ORDER made payable to the Federal Communications Commission. **DO NOT SEND CASH.** Filing fees are not required for applications for Novice Class license or for applications for a station license for recreation under military auspices. The following filing fee schedule governs applications in the Amateur Radio Service:
  - a. \$4.00 - New license; change of operator privileges; renewal of license; combination of renewal and modification of license.
  - b. \$2.00 - Modification of present license without renewal.
  - c. \$20.00 - Request for a special call sign in accordance with one of the exceptions set forth in Section 97.51(a) of the Commission's Rules.

NOTE: Application filing fees are payable and are not normally refundable irrespective of the Commission's disposition of an application.

PLEASE PRINT OR TYPE

DO NOT WRITE IN THE BLOCK

APPLICANT SHOULD ATTACH PRESENT LICENSE HERE

The present license must be attached unless it has been lost, mutilated, or destroyed, in which event the circumstances must be explained in this box. (CLUB OR MILITARY RECREATION STATION APPLICANTS SHOULD ATTACH STATION LICENSE ONLY)

**1. NAME OF APPLICANT (See Special Instructions A on Reverse Side)**

Last Name First Name Middle Initial

**2. PERMANENT MAILING ADDRESS**

Number Street

City State

Zip Code County

**3. BIRTHPLACE AND DATE**

City State Month Day Year

**4. Within ten years previous to the date of this application, has the applicant been convicted in a Federal, State, or local court of any crime for which the penalty imposed was a fine of \$500 or more or an imprisonment of six months or more? (See Special Instruction B on Reverse Side.)** Yes No

**5. ACTION(S) DESIRED (CHECK APPROPRIATE BOXES)**

A  New Operator License or Change of Class of Operator License (See Special Instruction C on Reverse Side)  
Check Class Desired:  
 Novice  General  Technician  Amateur Extra  Conditional

B  New Individual Station License

C  New Club Station License (Applicant, whose name appears in Item 1, must be a duly appointed trustee for a bona fide amateur radio organization and must have an operator's license of other than Novice Class)  
Trustee's Station Call Sign (or Control Number) Class of Operator privileges Expiration Date

D  New Military Recreation Station

E  Additional Station License (NOTE: An additional station license always expires when the licensee's basic operator and station license expires)  
Check Type:  Individual  Club

F  Modification of Present License (See Special Instruction D on Reverse Side)  
Check modifications desired:  
 Change of permanent station location  
 Other  
(Explain, using additional sheet if necessary)

G  Renewal of Present License (See Special Instruction E on Reverse Side)  
Have you met the operating time and code speed requirements of the Commission's Rules for Renewal of operator license? Yes No

**6. If presently licensed, furnish the following license information: (Trustee should furnish information for both his individual license and the Club station license)**

Individual License: Station Call Sign Class of Operator Privileges Expiration Date

Club or Military Recreation Station License: Station Call Sign Expiration Date

**7. A. Does applicant have any other amateur radio application on file with the Commission that has not been acted upon?** Yes No

B. If "Yes", state its purpose and date submitted.

**8. If applicant desires a special station call sign, show call sign desired. (See Special Instruction F)**

**SPECIAL STATION CALL SIGN REQUESTED**

**9. STATION LOCATION (See Special Instruction G on Reverse Side)**

Number Street

City State

Country

**10. REMOTE CONTROL POINT**

A Number Street

City State

B Remote Control Will Be By:  
 Wire  Radio (Submit information required by Section 97.43(b)(8) of the Commission's Rules)

**11. ANTENNA**

Will the antenna structure exceed an overall height of 170 feet above ground level or one foot above the established airport (landing area) elevation for each 200 feet of distance, or fraction thereof, from the nearest boundary of such landing area? (If "Yes", complete and attach herewith FCC Form 714 obtainable at any Commission Office.) Yes No

**12. STATION CONTROL**

Will the premises of station location (and of any remote control point) be under your control at all times during license term? (If "No", submit explanatory statement unless Item 14(c) is applicable.) Yes No

**13. FOR CLUB STATION APPLICANTS (A NEW CLUB STATION LICENSE MUST BE OBTAINED IF THERE IS A CHANGE OF TRUSTEE)**

A Official name of club

B Club Status (Attach a certified copy of the constitution or the organization papers and bylaws)  
 Corporation  Unincorporated Association

C Is any officer or director of the club an alien, or are more than one-fifth of the members of the club aliens? Yes No

D Signature and title of club officer certifying applicant as trustee to apply for and hold station licensing in behalf of Club:  
Signature \_\_\_\_\_  
Club Office Held \_\_\_\_\_

**14. FOR MILITARY RECREATION STATION APPLICANTS**

A Exact identification of military unit or group to operate amateur station

B Does the applicant accept responsibility for insuring that the station will be operated only by a licensed amateur operator? Yes No

C The station will not be used by the U.S. Government. Approval to establish an Amateur Station on U.S. Government premises is hereby granted.  
Signature of official in charge \_\_\_\_\_ Title or authority to approve \_\_\_\_\_

**CERTIFICATION**

I CERTIFY that all statements herein and attachments herewith are true, complete and correct to the best of my knowledge and belief and are made in good faith; that I am a citizen of the United States; that I am not the representative of any alien or of any foreign government; that I waive any claim to the use of any particular frequency or of the ether as against the regulatory power of the United States because of the previous use of the same whether by license or otherwise; that the station to be licensed, if any, will be inaccessible to unauthorized persons; that if trustee of a club station, I will immediately submit the license for cancellation upon termination of my trusteeship.

APPLICANT'S WRITTEN SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_

FOR COMMISSION USE ONLY

**FCC EXAMINER'S REPORT**

Failed	Written Examination	Passed
.....	.....	.....
(Speed)	Code Test	(Speed)
.....	.....	.....
Date	FCC Examiner	District No.

	CODE	EXAM	SCREEN	SIGN
Y				
N				

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT, U.S. CODE, TITLE 18, SECTION 1001.

Once again, the only information needed is for the custodial station and not for the individual's license and this application is filed separately from the custodians personal license.

NGV fm p.2

NØRTW - Barstow

The month of May found NØRTW in the thick of things. To name a few, an Armed Forces Day display showed Bill & Werg thrilling crowds of visitors by talking with Quang Tri, Phu Bai, Danang & Kaneohe Bay. Storage branch provided a TSC-15 van, which operated beautifully even with the vertical. Amazing! Speed Comm was next on the agenda. We are anxiously awaiting NØFTT's evaluation as for two days around here we were lost. After we came out of our daze, we found that over 500 messages and answers to same flew through the circuits we were on. We are ready again though. During the preparations for A. F. Day and Speed Comm, plans and activities for the move to the new station over at the Yermo Annex went ahead at full speed. Nothing but great is the word for the command support received by the station. A huge vote of thanks are due Lt Colonel Watson, HQEN C O; Mr. Roepke, Ass't Base Maint Officer; Mr. Bill Haney, Supervisor of Electrical Shop; Mr "Bud" Johnson, Maint General Foreman and many many more that have performed miracles on the middle of the "High Desert". Tony Green has joined us from NØEFD and is now hard at work on the RVN P/P skeds while our new clerk/typist Ron Fong has accomplished the impossible by squaring away the files and cleaning off my desk. Plans are now looking up for a 15 Jun moving date and barring anything unforeseen we should make it about on time. We are in no real hurry, however, as all must be in perfect order prior to us moving an inch. Two new S-lines are now on line, while the two older ones are in the capable hands of Maury (Santa Ana) branch Collins Support Divisions, for reconditioning and modification. All else is running smoothly as can be expected and all you all that are cold are invited up to enjoy our 100 temps. By the way, General Herbold will be glad to address a gathering of CHOPs from SOCAL whenever ya'll get around to deciding when we will start the "Round Robin Host Meetings".

73's Bill

NØEFD - RVN

Received a new Model 32 ASR this month. Use it for preparing tapes and haven't put in the loop yet as still using a Model 28 on line. Be getting another converter soon and then will have two separate 100 wpm loops and two separate 60 wpm loops. Will make it easy when traffic picks up. Lcpl Dick Moore reported aboard from the field. He was with 1/1 until they found out he had a license WABDGE. Glad to have him with us instead of in the paddies. Hi Need one more man and I can relax a little.

73

Jim

NØIZG - Kaneohe

Any takers for duty at NØIZG. We are down to just one man to operate seven days with Viet Nam and try to maintain an active MARS and amateur schedule Monday thru Friday during the day time for the local people. Just one other comment. I have asked by message but no answer, "Where is our Zero Beat?" If I'm not mistaken the last one was May 1969. I know there are people there to do the work. What went wrong, Gang, and can we help any way??

Chop Dick Stulz NØIZG

NØFOC - Yuma

We were sorry to lose SSgt N E Davis this month. Dave was transferred to FMF Pac WesPac fordu. w/MARS in Okinawa. A station is always sorry to lose a good operator, but we hope he enjoys his thirteen months on the Rock. While waiting for another man to replace Dave, we have temporarily suspended activities with SoCal on 7.3755 Mc and Wes Cars. While devoting all our efforts to our Okinawa and RVN commitments, we plan to resume activities with those two skeds as soon as we get a new man in.

73's

Joe NØWPY

John NØOXB

NEV (con't)

NØEFT - RVN

Greetings from the vacation capital of the world. Just returned from a few days R and R on Okinawa which proved most enjoyable but not long enough. The only news-worthy item of the month is the loss of Sgt Don Race who is on his way to operate in the Camp Butler, Okinawa system. Would like to pass on a job well done during the period he was an operator at this QTH. Progress on our bunker has slowed due to lack of plywood.

73's  
Don NØEFT  
Voice of the fighting 5th

#### EASCON '69 TO FEATURE LATEST IN MILITARY-SPACE ELECTRONIC SYSTEMS, EQUIPMENT

EASCON '69--an annual convention and exposition sponsored by the IEEE Group on Aerospace and Electronic Systems--will be held in Washington, D.C. at the Sheraton-Park Hotel from October 27 through October 29, 1969.

Featuring the latest research and application of military and space electronic systems and equipment, EASCON '69 will present a series of technical sessions plus government and industrial displays.

Technical sessions for the 1969 convention include the following subjects: Satellite Communication, Satellite Navigation, Earth Resources Exploration by Satellite and Aircraft, Aircraft Navigation and Landing Systems, Pattern Recognition, Radar, Terrestrial Communication, Exotic Power Sources, Urban Pro-



NEXT TIME YOU ANSWER THE PHONE "MARINE CORPS NAVY MARS, YOUR FAVORITE MARSIAN!" YOU'LL HANG UP THE OLD MIC FOR GOOD!

blems and Aerospace Technology, Electronics in Transportation, and Sensor Systems.

Free bus transportation will be provided by EASCON 869 to and from military establishments in the Washington area.

For the first time the Electronic Devices Convention will combine its sessions with EASCON during the last two days of EASCON.

Chairman for EASCON '69 is Brig. Gen. J. H. Weiner, USAF (Ret.) of the Long Lines Dept., American Telephone and Telegraph Company. Vice-Chairman is Lt. Gen. R. P. Klocko, USAF, director of the Defence Communication Agency.

#### CORRECTION

April issue, page 16, article AMATEUR/MARS LICENSING, in sub para 3. change "Application is made, by letter, on FCC form 610" to "Application is made on FCC form 610 and submitted by letter of transmittal".

# Martoons



"SPACE FLIGHT TO MARS?,  
NOT HERE BUD!"



"YA KNOW HARRY, YOU'RE THE ONLY MARS OPER-  
ATOR I KNOW WHO COLLECTS FLIGHT PAY!  
CAUSE YOU A REAL BIRD!"

TRAFFIC COUNT -- NALM

May 1969

	ORIG	RCVD	RELY	DLVD	TOTAL	TOTAL PP
NAMC	NO REPORT					
NANP	NO REPORT					
NAV2	9	3462	3463	0	6934	0
NBEM	---	---	---	---	---	2416
NBFA	144	1385	1255	130	3414	1609
NBFB	900	3774	3885	47	8606	863
NBFC	NO REPORT					
NBFD	177	2358	2125	233	4660	1700
NBFJ	NO REPORT					
NBFL	NO REPORT					
NBFQ	NO REPORT					
NBPT	1080	153	4	95	1332	1045
NBPY	NO REPORT					
NBEG	---	---	---	---	6909	11
NBETH	---	---	---	---	4036	29
NBETJ	---	---	---	---	---	---
NBETL	---	---	---	---	---	---
NBFAA	NO REPORT					
NBFIT	---	---	---	---	788	90
NBFJM	NO REPORT					
NBFOC	---	---	---	---	17	234
NBIVT	---	---	---	---	---	---
NBIXF	55	125	92	17	289	380
NBIZG	6	5	0	5	16	758
NBRSB	NO REPORT					
NBRSE	NO REPORT					
NBRTF	52	752	739	13	1556	---
NBRTW	27	4194	4189	5	8415	1581
NBXIN	NO REPORT					
W4BHU	NO REPORT					
W4BUJ	0	3	2	1	6	12
W4LEV	NO REPORT					
W4MCL	NO REPORT					
W4WTR	---	---	---	---	---	---
W4PFC	---	---	---	---	---	---
KG4AM	NO REPORT					
KP4AZJ	3	1	0	1	5	1104
W6FCS	NO REPORT					
W6IAB	NO REPORT					
W6YDK	NO REPORT					
W6ZJB	---	---	---	---	---	---
KH6AJF	---	---	1	---	1	47
KH6BGS	---	---	---	---	---	37
KR6DI	---	---	---	---	---	476
KR6FQ	---	---	---	---	---	568
KR6GF	1	0	1	0	2	430
KR6MB	---	---	---	---	---	152
KR6MH	0	3	3	0	6	1222
WA7AAJ	---	---	---	---	2	77

TRAFFIC COUNT - NØALM

June 1969

	ORIG	RCVD	RELY	DLVD	TOTAL	TOTAL PP
NAV2	12	4316	4305	4	8637	51
NØANP	2540	193	130	63	2926	403
NØEEM	3	----	----	----	3	2043
NØEFA	135	1039	1126	----	2300	1273
NØEFB	715	3207	3780	----	7702	1079
NØEFC	397	390	575	----	1362	639
NØEFD	146	1760	1440	320	3200	2088
NØEFJ	84	64	102	----	250	1056
NØEFL	68	239	307	----	614	566
NØEFQ	173	209	229	----	611	415
NØEFT	310	118	6	71	505	1383
NØEFY	15	43	25	----	83	331
NØENV	41	61	54	7	163	471
NØETG	----	----	----	----	7192	2
NØETH	----	----	----	----	2652	19
NØETL	----	----	----	----	6	----
NØFAA	19	1321	1331	9	2680	267
NØFIT	----	----	----	----	331	196
NØFJM	93	15	----	15	108	2009
NØFOC	12	10	5	5	32	277
NØIVT	2	----	----	2	4	360
NØIXF	14	139	114	5	272	540
NØIZG	----	7	----	7	14	1325
NØRSB	45	10	24	9	88	2809
NØRSE	376	15766	12779	288	29209	1163
NØRTP	103	946	974	28	2051	----
KG4AM	----	----	----	----	----	389
KP4AZJ	1	----	----	1	2	726
K4BUJ	----	----	----	----	----	1
W4LEV	----	----	----	----	----	15
KH6AJF	----	----	----	----	----	23
KH6BGS	----	----	----	----	----	23
KR6DI	----	----	----	----	----	405
W6FCS	35	41	2	39	117	195
KR6FQ	----	----	----	----	----	326
KR6GF	----	----	----	----	----	450
W6IAB	----	25	20	5	50	65
KR6MB	----	----	----	----	11	714
KR6MH	----	----	----	----	----	1243
W6YDK	----	----	----	----	4300	5
WA7AAJ	----	1	1	----	2	314

TRAFFIC COUNT - ~~NO~~ALM

July 1969

	ORIG	RCVD	RELY	DLVD	TOTAL	TOTAL PP
NAV2	10	1655	1659	7	3331	21
NANP	1918	110	30	83	2141	508
NEFA	195	983	927	53	2638	1032
NEFD	139	1829	1681	148	3797	2533
NEFT	435	114	4	91	644	1501
NETG	----	----	----	----	12325	17
NETH	----	----	----	----	6852	38
NETJ	----	----	----	----	631	----
NETL	----	----	----	----	2	2
NETI	----	----	----	----	422	184
NETJM	50	16	----	16	66	2185
NETOC	5	11	4	7	27	347
NETIVT	3	1	----	1	5	378
NETIZG	----	1	----	1	2	1543
NETRTP	211	1046	985	61	2303	----
KP4AZJ	1	----	----	1	2	342
KH6BGS	----	----	----	----	----	18
KR6DI	----	----	----	----	----	519
KR6FQ	----	----	----	----	----	289
KR6GF	----	----	----	----	----	547
KR6MB	----	----	----	----	----	505
KR6MH	----	----	----	----	----	1256
WA7AAJ	4	1	----	1	6	277